

Index to Volume XXXVIII

Page citations are made to single pages; these are often the beginning of a chapter, section, or running discussion dealing with a topic.

- Abilities, prior learning, and sequencing of instruction: 161
- Achievement of adolescents, testing of: see Aptitude and achievement testing of adolescents
- Achievement of children aged 3-6, testing of: 15
- Achievement of students from other cultures and subcultures, testing of: 74
- Adolescent personality, measurement of: 35
- Affective domain of adolescents, measurement of: 36
- Affective domain of preadolescent, testing of: 23; pupil attitudes, 23; school and home environment, 25; social development, 24
- Aptitude and achievement of adolescents, testing of: 29; factor analyses, 29; *General Aptitude Test Battery*, 29; longitudinal studies, 30; nonintellective variables and achievement, 32; predictive validity, 31; relations among achievement, creativity, and divergent thinking, 32
- Attitude and values of young adults, testing of changes in: 45
- Branching as a means of individualizing instruction: 164
- Career development: 346, 436; correlates of vocational development, 350; facilitation of, 360; occupational status and performance, 357; sources of influence on, 355; summary, 361; theory construction and testing, 346
- Career development and vocational choice of young adults, testing on: 44
- Career development theory construction and testing: 346; critique of theories, 349; theoretical formulations, 347
- Changing the school milieu: 471
- Classroom teacher as mental health worker: 462
- Cognitive domain of preadolescents, testing of: 19; creativity, 21; educational achievement, 19; intellectual development, 22
- Cognitive educational development of young adults, testing of: 42
- College as an agent of change in young adults, testing on: 46
- College mental health: 454
- Communication (human), symbolic interactionist model of: 122
- Community development, national integration, and education: 250
- Computer-assisted instruction, relevant research in: 124
- Cost-benefit of vocational and technical education: 423; Gaston Technical Institute Analysis, 426; Winona Study, 425; Worcester Analysis, 423
- Creativity, achievement, and divergent thinking in adolescents, relationships among: 32
- Curriculum development: 367, 436; curriculum evaluation, 376; curriculum research strategies, 369; designs and procedures, 372; focus of research, 374; objectives and philosophical positions, 368; situation, societal pressures, problems, 367; summary, 377
- Curriculum development, focus of research on: 374; educational level, 375; needs of learners, 374; team teaching, 375; technological development, 375
- Curriculum evaluation, issues in: 79; models and methodologies, 77; studies, 81
- Curriculum improvement: 279; curriculum, culture, and language, 280; curriculum development, 279; input-output studies, 282
- Design and selection factors in instructional materials: 115; approaches to a psycholinguistics of media, 121; background of media research, 115; design of multimedia instruction, 119; multiple- versus single-channel research, 120; relevant research in com-

- puter-assisted instruction, 124; a search for instructional film design, 123; summary and conclusions, 124; a symbolic interactionist model of human communication, 122; theory and technology of instruction, 118; word-picture relationships in media-messages, 123
- Developmental mental health, utilization of: 499; early intervention, 499; early school years, 501; preschool years, 500
- Early identification of children with developing mental health problems: 453
- Economic development: *see* Education and economic development
- Economic growth, the residual in: 218
- Education and economic development: 213; concept of human capital, 220; development of human resources, 214; further directions for research, 226; the residual in economic growth, 218
- Education and political development: 231; concept of political development, 232; education and political development, 235
- Education and social development: 243; definition of social development, 243; education, community development, and national integration, 250; education and social mobility, 248; education and urbanization, 255; general studies of education and development, 244; population change, 257
- Education for development, research on content, methods, and techniques in: 277; curriculum improvement, 279; literacy, reading, and books, 285; status of educational research abroad, 278; technology in education, 282
- Educational and psychological testing: and the public interest, 7; critique of issue on, 102; in the evaluation of curriculum development, 77; in professional education, 49; major works and studies on, 5; methodology and technology of, 92; national, state, and other external programs, 85; needed research on, 105; norms in, 95; of adolescents, 29; of children aged 3-6, 12; of exceptional children, 61; of preadolescents, 19; of students from other cultures and subcultures, 71; of young adults, 42; overview of research on, 5
- Educational and psychological tests, construction of: 92; correction for guessing, 93; item analysis, 93; item format, 94
- Educational environment in professional education, research on measures of: 53
- Educational exchange, international development through: 293; behavioral research, 295; methodologies to fit the questions, 298; new needs and questions, 301; significant studies, 296; sources of research information, 294
- Educational input in professional education, research on measures of: 49; aptitude and achievement testing in student selection, 49; attitude, interest, and personality testing in student selection, 52
- Educational media: *see* Instructional materials
- Educational objectives and educational media: 177; analysis of objectives, 180; behavioral objectives, 177; instructional strategies, 184; media and learner responses, 182; media and measurement, 188
- Educational output in professional education, research on measures of: 54; determination of critical performance requirements, 54; performance ratings, 55; research and development of new types of tests, 54; studies of conventional test forms, 54
- Educational planning, concepts and techniques of: 264; characteristics of educational planning, 264; models of the educational system, 273; response to manpower models in, 271; use of manpower models in, 267; variants of the manpower model, 269
- Educational processes, ego development in: 451
- Educational research abroad, status of: 278
- Educational system, models of: 273
- Environmental influences on adolescent development, measurement of: 37
- Exceptional children: approaches to assessment of, 61; factors influencing test behavior of, 67; measures of perceptual-motor functions of, 62; mental ability tests for, 64; other measures for and populations of, 66; psycholinguistic functions of, 66

- Finance and facilities: 399
- Health education: 512; evaluation, 522; knowledge, attitude, and behavior change, 517; programs in higher education, 514; national projects, 512; research needs, 524; specific health issues, 519; teaching-learning process, 514
- Health education programs in higher education: 514
- Human capital, concept of: 220
- Human resources, development of: 214; associations between education and economic growth, 214; concept of human resource development, 216; education and human resource development, 217
- Instruction, theory and technology of: 118
- Instructional film design, search for: 123
- Instructional materials: design and selection factors, 115; educational objectives and educational media, 177; learner variables and educational media, 177; learner variables and educational media, 160; utilization and management of learning resources, 129
- Instructional media: 382; multimedia modes, 385; other media, 386; programmed instruction, 383; status of media research, 386; tape recordings, 384; television, 383; textbooks, 385
- Instructional strategies: 184; issues and evidence, 185; learning domains, 187; learning modalities, 186
- Intellectual abilities of students from other cultures and subcultures, testing of: 71
- Intellectual structure in children aged 3-6, testing of: 12; associated variables, 13; factor analytic studies, 12
- Interest, attitude, and personality assessment in professional education, research on: 56; new interest development, 57; studies on standardized instruments, 55
- International agencies, activities of: 206
- International development education, context of: 201; activities of international agencies, 206; critical elements, 208; national trends affecting, 204; role of professional education, 201; universities and national research agencies abroad, 207
- International development education, critical elements in: 208; educational content, methods, and techniques, 210; educational exchange, 210; quantitative data, 208; reciprocal effects of education, 209
- International development education, national trends affecting: 204
- International development through educational exchange: *see* Educational exchange, international development through
- Issues associated with the measurement of change: 492
- Knowledge, attitude, and behavior change: 517
- Learner characteristics and programmed instruction: 168
- Learner responses and media: *see* Media and learner responses
- Learner variables and educational media: 160; abilities, prior learning, and sequencing of instruction, 161; branching as a means of individualizing instruction, 164; individual differences in rate of learning, 163; learner characteristics and programmed instruction, 168; overview and needed future research, 172; pictures, spoken words, and printed words, 166; size of step, 165
- Learning, individual differences in rate: 163
- Learning outcomes, 388; concomitant learnings, 388; creativity, 389; skill development, 389
- Learning resources, utilization and management of: 129; management, 139; suggestions for future research, utilization, 151
- Literacy, reading, and books: 285; effect of literacy programs, 285; literacy teaching, 286; reading materials, 287
- Management of learning resources: 139; development of management systems, 149; identification of relationships of media to the educational enterprise, 140; organization for the use of instructional technology, 145

- Manpower analysis, research requirements for: 334; labor force projections, 335; manpower requirements, 335; problems and methodology, 336
- Manpower models in educational planning: response to, 271; use of, 267; variants of, 269
- Manpower policies: 326
- Manpower supply and demand: 326, 435; conclusion, 341; interaction of the supply of and demand for labor, 328; manpower policies, 326; recent manpower surveys, 338; research requirements for manpower analysis, 334; theory of manpower supply and demand, 329
- Manpower surveys, recent: 338; education and training needs, 340; labor force projections, 339; manpower requirements, 338
- Measurement and media: *see* Media and measurement
- Media and learner responses: 182; methods of utilizing learner responses, 182; teacher roles, 184
- Media and measurement: 188
- Media-messages, word-picture relationships in: 123
- Media research, background of: 115
- Mental ability tests for exceptional children: 64
- Mental health, concepts of education in relation to: 449
- Mental health in education: 447; college mental health, 454; concepts of, 447; concepts of education in relation to, 449; early identification of children with developing mental health problems, 453; ego development in educational processes, 451; mental health factors in school achievement, 452; mental health within the context of educational processes, 450; psychoeducational approaches to the education of emotionally handicapped children, 455
- Mental health personnel, realignment of: 464
- Mental health professionals in the school, utilization of: 497; issues and conclusions, 508; mental health: psychic and developmental, 497; psychic realm in mental health, 502; utilization of developmental mental health, 499
- Mental health programs, measurement in relation to: 478; assessment of mental health status in the school population, 479; issues associated with the measurement of change, 492; measure of outcomes of school mental health programs, 486
- Mental health status in the school population, assessment of: 479
- Mental health within the context of educational processes: 450
- Methodology and technology of educational and psychological testing: 92; construction, 92; miscellaneous studies, 98; norms, 95; reliability and validity, 95; technology, 97
- Multimedia instruction, design of: 119
- Multiple- versus single-channel research: 120
- National integration, community development and education: 250
- National projects: 512
- National research agencies abroad: 207
- National testing programs: 85; prediction studies, 85; placement, 86
- Norms in educational and psychological testing: 95
- Objectives, analysis of: 180; behavioral, 177
- Occupational preferences of adolescents: *see* Vocational interests and occupational preferences of adolescents, measurement of
- Occupational status and performance: 357; personality differences among occupational groups, 358; prediction of vocational success, 357; worker adjustment, 359
- Organization and administration: 395, 397, 437; finance and facilities, 399; gaps in recent research, 401; organization and administration, 397; organization for continuing research, 400; the outlook, 401; personnel, 399; policy and planning, 396
- Organization for instruction in vocational education: 387; arrangement of content, 387; organizing learning experiences, 388
- Perceptual-motor functions of exceptional children, measures of: 62

- Personality, adolescents, measurement of: 35; students from other cultures and subcultures, 75
 Personnel in vocational education: 399
 Pictures, spoken words, and printed words: 166
 Political development, concept of: 232; education and, 235
 Population change, effect of education on: 257
 Practical arts education: *see* Vocational education and Vocation, technical and practical arts education
 Prior learning, abilities, and sequencing of instruction: 161
 Professional education, role of international development education: 201; nature of international development education, 203; university centers for, 201
 Professional education, testing in: 49; long-term follow-up studies of professional education, 57; research on interest, attitude, and personality assessment, 56; research on measures of the educational environment, 53; of educational input, 49; of educational output, 54
 Program evaluation: 417, 438; cost-benefit analysis of vocational and technical education, 423; evaluative criteria and accreditation, 428; goals and objectives, 418; the product of vocational, technical, and practical arts education, 419; retrospect and prospect, 430
 Programed instruction and learner characteristics: 168
 Psychic realm in mental health: 502; emotionally disturbed child, 502; use of consultation by mental health professionals, 507
 Psychoeducational approaches to the education of emotionally handicapped children: 455
 Psycholinguistic functions of exceptional children: 66
 Psycholinguistics of media, approaches to: 121
 Psychological testing: *see* Educational and psychological testing
 Psychosocial dimension: 532; cross-cultural comparisons, 535; demands on sex educators, 537; personality factors, 533; premarital pregnancies, 534; race, 537; sex roles, 532; social class, 536
 Reliability and validity of educational and psychological tests: 95
 School mental health programs, innovations in: 460; changing the school milieu, 471; classroom teacher as mental health worker, 462; realignment of mental health personnel, 464; search for new guidelines, 461; services focusing on pupils, 466
 School mental health programs, measures of outcomes: 486
 Sequencing of instruction, abilities, and prior learning: 161
 Services focusing on pupils: 466; identification, 466; school intervention programs, 468
 Sex education, attitudes and opinions on: 528
 Sex education, sources and need: 529; evaluation of outcome, 531; home inadequacy, 529; youth needs, 530
 Sex education research: 528; attitudes and opinions on sex education, 528; expanding psychosocial dimension, 532; sources and need, 529; theoretical and programmatic implications, 539
 Social and philosophical framework: 309, 435; emerging concepts related to vocational education, 313; an expanding role for vocational education, 309; the future prospect for vocational education 321
 Social development: definition of, 243; education 244
 Social mobility and education: 248
 Socioemotional dimensions of educational and psychological development of children aged 3-6, testing of: 14
 Specific health issues: 519
 Staffing, 405, 438; characteristics and competencies, 408; innovations and trends, 411; preparation, 410; recruitment, 407; supply and demand, 405; summary, 413
 State testing programs: 87
 Supply of and demand for labor, interaction of: 28
 Supply of and demand for vocational teachers: 405

- Teaching-learning process: 514
- Technical education: *see* Vocational education and Vocational, technical, and practical arts education
- Techniques and modes of instruction: 382, 437; instructional media, 382; learning outcomes, 388; organization for instruction, 387; summary, 390
- Technology, educational: *see* Instructional materials
- Technology in education: 282; instructional uses of the new technologies, 283; mass communication in development, 282; programed instruction, 284
- Technology in educational and psychological testing: 97
- Test behavior of exceptional children, factors influencing: 67
- Testing: *see* Educational and psychological testing
- Testing and the public interest: 7; empirical studies, 7; guidelines and standards, 8; symposia and special journal issues, 8
- Testing programs: 85; national, 85; other external, 89; state, 87
- Theoretical and programmatic implications: 539; increasing permissiveness, 540; research reorientation, 539
- Universities and national research agencies abroad: 207
- Urbanization and education: 255
- Utilization of learning resources: 129; educational television, 134; language laboratories, 131; motion pictures, 132; programed instruction, 129; special education research, 138
- Validity and reliability of educational and psychological tests: 95
- Values and attitude of young adults, testing of changes in: 45
- Vocational choice and career development of young adults, testing on: 44
- Vocational development, correlates of, 350; career decision-making behavior, 352; educational and occupational aspirations, 351; occupational stereotypes, 350
- Vocational education, curriculum research strategies for: 369; competency pattern approach, 371; curriculum guide approach, 372; family of occupations or "cluster" approach, 369; functions of industry approach; 371; transfer-ability approach, 370
- Vocational education, emerging concepts related to: 313; compensation for inequities, 317; development of human resources, 313; elimination of inequities, 317; equalization of opportunities to develop, 316; investment in human capital, 314; occupation as a source of personal identity, 319; people versus progress, 320; research policy, 439
- Vocational education, an expanding role for: 309; influences of manpower legislation, 310; influence of new curriculum concepts, 311; influence of social and technological change, 310; prospects for, 321
- Vocational education, policy and planning in: 396
- Vocational education research, state of the art: 439
- Vocational interests and occupational preferences of adolescents, measurement of: 33; changes in occupational decisions, 34; factors associated with vocational interests and occupational choices, 33; validity of measures of vocational interests, 34
- Vocational teacher education, innovations and trends in: 412
- Vocational teachers: characteristics and competencies of, 408; preparation of, 410; recruitment of, 407
- Vocational, technical, and practical arts education, the product of: 419; explanatory studies, 421; large-scale follow-up studies, 419

